



US01 corrected sequence listing 04_12_07.txt
SEQUENCE LISTING

<110> Wang, Chun
Xy Li, Benjamin
Cheng, Xin
Liu, Jing
Niu, Li-Wen
Huang, Wan-Zhi
Xu, Zhen-Yu
Luo, Dan
Kang, Lian-Di
Ding, Jin-Guo
Rong, Fang
Liu, Yan
Chen, Hui-Ran

<120> Antithrombosis enzyme from the snake venom of Agkistrodon acutus

<130> 54567.8001.US01

<140> 09/938,114

<141> 2001-08-23

<150> US 60/043,886

<151> 1997-04-10

<150> US 09/058,740

<151> 1998-04-10

<160> 12

<170> PatentIn version 3.3

<210> 1

<211> 544

<212> DNA

<213> Agkistrodon acutus

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tttgtggcc agttgattgc tcagaagata aagtcagccaa aatccatgt ctggatcgga 180
ctgagggctc aaaacaaaga aaagcaatgc agcatagagt ggagcgatgg ctccagcatc 240
agttatgaga attggattga agaagaatcc aaaaagtgtc ttgggtgca catagagaca 300
gggttcata agtggagaa ttttactgt gaacaacaag atcccttgt ctgcgaggca 360
tagtctgaag atccagctga ttgaagtctg gagaagcaag gaagccccccc accccatccc 420
ccaaccctgc ctagccacaa tctctgctat gcacccttg ctcaacggat gctctgtta 480
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<212> PRT

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<213> Agkistrodon acutus

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Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe Cys Thr Lys
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Gln Val Asn Gly Gly His Leu Val Ser Ile Glu Ser Ser Gly Glu Ala
35 40 45

Asp Phe Val Gly Gln Leu Ile Ala Gln Lys Ile Lys Ser Ala Lys Ile
50 55 60

His Val Trp Ile Gly Leu Arg Ala Gln Asn Lys Glu Lys Gln Cys Ser
65 70 75 80

Ile Glu Trp Ser Asp Gly Ser Ser Ile Ser Lys Glu Asn Trp Ile Glu
85 90 95

Glu Glu Ser Lys Lys Cys Leu Gly Val His Ile Glu Thr Gly Phe His
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Lys Trp Glu Asn Phe Tyr Cys Glu Gln Gln Asp Pro Phe Val Cys Glu
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<213> Agkistrodon acutus

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1 5 10 15

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<210> 4
<211> 17
<212> PRT
<213> Agkistrodon acutus

<400> 4

Asp Cys Pro Ser Glu Trp Ser Ser Tyr Glu Gly Phe Cys Tyr Lys Pro
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us01 corrected sequence listing 04_12_07.txt
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<210> 5
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<212> PRT
<213> Agkistrodon acutus

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<220>
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<220>
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<220>
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1 5 10 15

ctc tcc ctg agt gga act gca gct gat tgt ccc tct gag tgg tcc tcc 95
Leu Ser Leu Ser Gly Thr Ala Ala Asp Cys Pro Ser Glu Trp Ser Ser
20 25 30

tat gaa ggg cat tgc tac aag ccc ttc gat gaa cct aag acc tgg gca 143
Tyr Glu Gly His Cys Tyr Lys Pro Phe Asp Glu Pro Lys Thr Trp Ala
35 40 45

gat gca gag aaa ttc tgc aca caa cac aaa ggc agc cat ctg cct 191
Asp Ala Glu Lys Phe Cys Thr Gln Gln His Lys Gly Ser His Leu Pro
50 55 60

ctc aca gca gtg aga gcg att gtg tnn nnn nnn nnt ggt cac gtt gac 239

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Leu Thr Ala Val Arg Ala Ile Val Xaa Xaa Xaa Xaa Gly His Val Asp
65 70 75

cac acc aag ttg aaa ctg att agt ctg att gga ctg aag aac atc tgg 287
His Thr Lys Leu Lys Leu Ile Ser Leu Ile Gly Leu Lys Asn Ile Trp
80 85 90 95

aac gga tgc tac tgg aag tgg agc gat ggc acc aag ctc gac tac aaa 335
Asn Gly Cys Tyr Trp Lys Trp Ser Asp Gly Thr Lys Leu Asp Tyr Lys
100 105 110

gac tgg cgt gaa caa ttt gaa tgt ctc gta tcc agg aca gtt aat aac 383
Asp Trp Arg Glu Gln Phe Glu Cys Leu Val Ser Arg Thr Val Asn Asn
115 120 125

gaa tgg cta agt atg gac tgc ggc act act tgc tct ttc gtc tgc aag 431
Glu Trp Leu Ser Met Asp Cys Gly Thr Thr Cys Ser Phe Val Cys Lys
130 135 140

ttc cag gca tagtctgaag acta 454
Phe Gln Ala
145